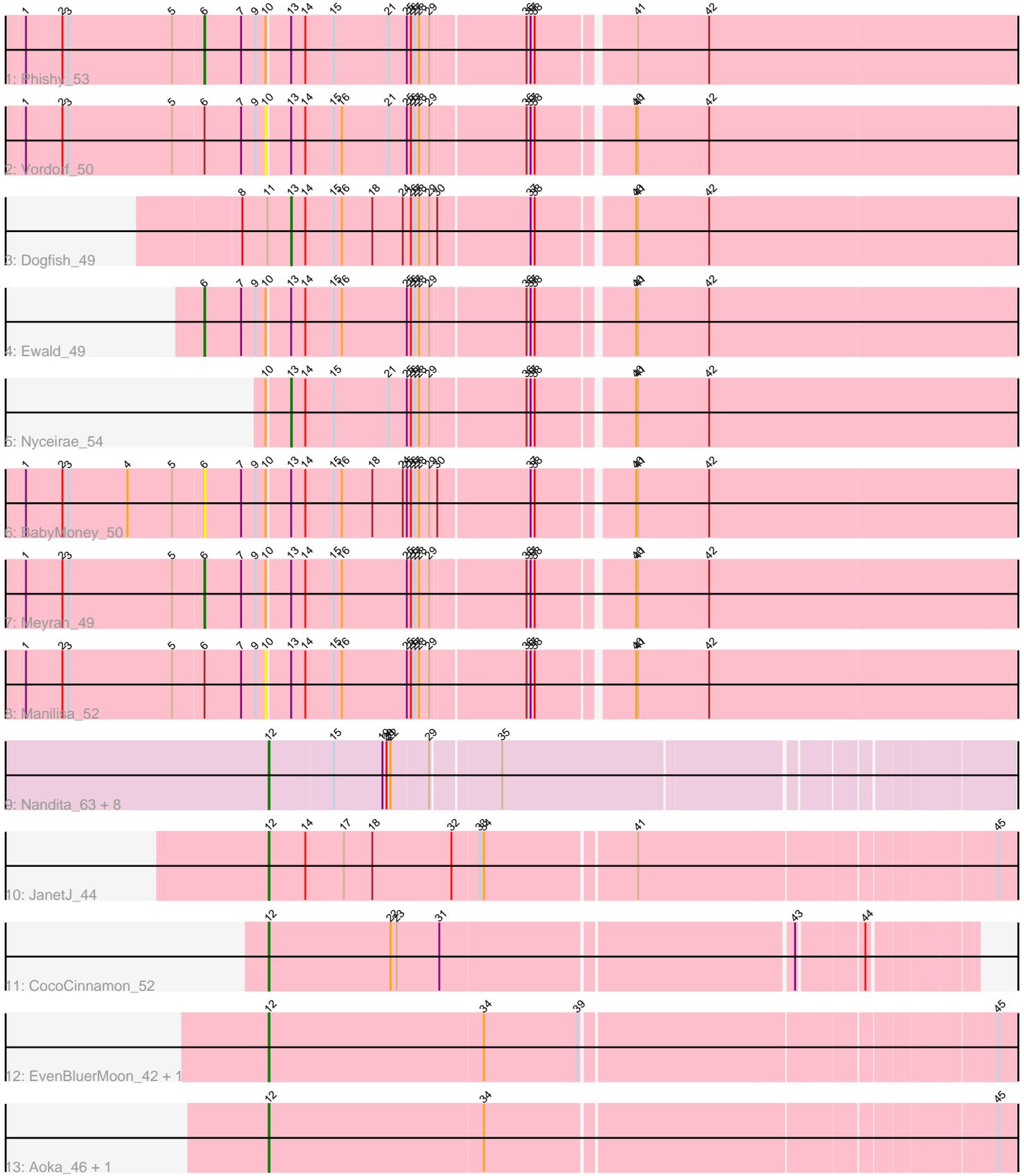


Pham 291512



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 291512 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291512 has 23 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Phishy_53
- Track 2 : Vordorf_50
- Track 3 : Dogfish_49
- Track 4 : Ewald_49
- Track 5 : Nyceirae_54
- Track 6 : BabyMoney_50
- Track 7 : Meyran_49
- Track 8 : Manilisa_52
- Track 9 : Nandita_63, Donatella_63, Dirdigger_60, Yonex_64, Kihatsu_64, Ryan_64, Lenoxika_60, ToastyOats_63, Ichiang_60
- Track 10 : JanetJ_44
- Track 11 : CocoCinnamon_52
- Track 12 : EvenBluerMoon_42, PrairieDogTown_43
- Track 13 : Aoka_46, Hereford_63

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 12, it was called in 10 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aoka_46, CocoCinnamon_52, Dirdigger_60, Donatella_63, EvenBluerMoon_42, Hereford_63, Ichiang_60, JanetJ_44, Kihatsu_64, Lenoxika_60, Nandita_63, PrairieDogTown_43, Ryan_64, ToastyOats_63, Yonex_64,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

- BabyMoney_50, Dogfish_49, Ewald_49, Manilisa_52, Meyran_49, Nyceirae_54, Phishy_53, Vordorf_50,

Summary by start number:

Start 6:

- Found in 6 of 23 (26.1%) of genes in pham
- Manual Annotations of this start: 3 of 15
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BabyMoney_50 (DT), Ewald_49 (DT), Meyran_49 (DT), Phishy_53 (DT),

Start 10:

- Found in 7 of 23 (30.4%) of genes in pham
- No Manual Annotations of this start.
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Manilisa_52 (DT), Vordorf_50 (DT),

Start 12:

- Found in 15 of 23 (65.2%) of genes in pham
- Manual Annotations of this start: 10 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aoka_46 (FO), CocoCinnamon_52 (FO), Dirtdigger_60 (FF), Donatella_63 (FF), EvenBluerMoon_42 (FO), Hereford_63 (FO), Ichiang_60 (FF), JanetJ_44 (FO), Kihatsu_64 (FF), Lenoxika_60 (FF), Nandita_63 (FF), PrairieDogTown_43 (FO), Ryan_64 (FF), ToastyOats_63 (FF), Yonex_64 (FF),

Start 13:

- Found in 8 of 23 (34.8%) of genes in pham
- Manual Annotations of this start: 2 of 15
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Dogfish_49 (DT), Nyceirae_54 (DT),

Summary by clusters:

There are 3 clusters represented in this pham: DT, FF, FO,

Info for manual annotations of cluster DT:

- Start number 6 was manually annotated 3 times for cluster DT.
- Start number 13 was manually annotated 2 times for cluster DT.

Info for manual annotations of cluster FF:

- Start number 12 was manually annotated 5 times for cluster FF.

Info for manual annotations of cluster FO:

- Start number 12 was manually annotated 5 times for cluster FO.

Gene Information:

Gene: Aoka_46 Start: 32046, Stop: 33164, Start Num: 12

Candidate Starts for Aoka_46:

(Start: 12 @32046 has 10 MA's), (34, 32361), (45, 33066),

Gene: BabyMoney_50 Start: 37319, Stop: 38551, Start Num: 6

Candidate Starts for BabyMoney_50:

(1, 37058), (2, 37112), (3, 37121), (4, 37208), (5, 37274), (Start: 6 @37319 has 3 MA's), (7, 37373), (9, 37394), (10, 37409), (Start: 13 @37442 has 2 MA's), (14, 37463), (15, 37505), (16, 37517), (18, 37562), (24, 37607), (25, 37613), (26, 37619), (27, 37625), (28, 37631), (29, 37646), (30, 37655), (37, 37787), (38, 37793), (40, 37922), (41, 37925), (42, 38030),

Gene: CocoCinnamon_52 Start: 32925, Stop: 33902, Start Num: 12

Candidate Starts for CocoCinnamon_52:

(Start: 12 @32925 has 10 MA's), (22, 33105), (23, 33114), (31, 33177), (43, 33675), (44, 33762),

Gene: Dirtdigger_60 Start: 38872, Stop: 39894, Start Num: 12

Candidate Starts for Dirtdigger_60:

(Start: 12 @38872 has 10 MA's), (15, 38965), (19, 39037), (20, 39043), (21, 39046), (22, 39049), (29, 39103), (35, 39196),

Gene: Dogfish_49 Start: 36865, Stop: 37968, Start Num: 13

Candidate Starts for Dogfish_49:

(8, 36796), (11, 36832), (Start: 13 @36865 has 2 MA's), (14, 36886), (15, 36928), (16, 36940), (18, 36985), (24, 37030), (26, 37042), (27, 37048), (28, 37054), (29, 37069), (30, 37078), (37, 37210), (38, 37216), (40, 37345), (41, 37348), (42, 37453),

Gene: Donatella_63 Start: 39063, Stop: 40085, Start Num: 12

Candidate Starts for Donatella_63:

(Start: 12 @39063 has 10 MA's), (15, 39156), (19, 39228), (20, 39234), (21, 39237), (22, 39240), (29, 39294), (35, 39387),

Gene: EvenBluerMoon_42 Start: 31418, Stop: 32536, Start Num: 12

Candidate Starts for EvenBluerMoon_42:

(Start: 12 @31418 has 10 MA's), (34, 31733), (39, 31871), (45, 32438),

Gene: Ewald_49 Start: 36559, Stop: 37788, Start Num: 6

Candidate Starts for Ewald_49:

(Start: 6 @36559 has 3 MA's), (7, 36613), (9, 36634), (10, 36649), (Start: 13 @36682 has 2 MA's), (14, 36703), (15, 36745), (16, 36757), (25, 36853), (26, 36859), (27, 36865), (28, 36871), (29, 36886), (36, 37018), (37, 37024), (38, 37030), (40, 37159), (41, 37162), (42, 37267),

Gene: Hereford_63 Start: 31162, Stop: 32280, Start Num: 12

Candidate Starts for Hereford_63:

(Start: 12 @31162 has 10 MA's), (34, 31477), (45, 32182),

Gene: Ichiang_60 Start: 38423, Stop: 39445, Start Num: 12

Candidate Starts for Ichiang_60:

(Start: 12 @38423 has 10 MA's), (15, 38516), (19, 38588), (20, 38594), (21, 38597), (22, 38600), (29, 38654), (35, 38747),

Gene: JanetJ_44 Start: 32563, Stop: 33687, Start Num: 12

Candidate Starts for JanetJ_44:

(Start: 12 @32563 has 10 MA's), (14, 32617), (17, 32674), (18, 32716), (32, 32833), (33, 32872), (34, 32878), (41, 33091), (45, 33583),

Gene: Kihatsu_64 Start: 39971, Stop: 40993, Start Num: 12

Candidate Starts for Kihatsu_64:

(Start: 12 @39971 has 10 MA's), (15, 40064), (19, 40136), (20, 40142), (21, 40145), (22, 40148), (29, 40202), (35, 40295),

Gene: Lenoxika_60 Start: 38298, Stop: 39320, Start Num: 12

Candidate Starts for Lenoxika_60:

(Start: 12 @38298 has 10 MA's), (15, 38391), (19, 38463), (20, 38469), (21, 38472), (22, 38475), (29, 38529), (35, 38622),

Gene: Manilisa_52 Start: 37821, Stop: 38960, Start Num: 10

Candidate Starts for Manilisa_52:

(1, 37470), (2, 37524), (3, 37533), (5, 37686), (Start: 6 @37731 has 3 MA's), (7, 37785), (9, 37806), (10, 37821), (Start: 13 @37854 has 2 MA's), (14, 37875), (15, 37917), (16, 37929), (25, 38025), (26, 38031), (27, 38037), (28, 38043), (29, 38058), (36, 38190), (37, 38196), (38, 38202), (40, 38331), (41, 38334), (42, 38439),

Gene: Meyran_49 Start: 37660, Stop: 38889, Start Num: 6

Candidate Starts for Meyran_49:

(1, 37399), (2, 37453), (3, 37462), (5, 37615), (Start: 6 @37660 has 3 MA's), (7, 37714), (9, 37735), (10, 37750), (Start: 13 @37783 has 2 MA's), (14, 37804), (15, 37846), (16, 37858), (25, 37954), (26, 37960), (27, 37966), (28, 37972), (29, 37987), (36, 38119), (37, 38125), (38, 38131), (40, 38260), (41, 38263), (42, 38368),

Gene: Nandita_63 Start: 38985, Stop: 40007, Start Num: 12

Candidate Starts for Nandita_63:

(Start: 12 @38985 has 10 MA's), (15, 39078), (19, 39150), (20, 39156), (21, 39159), (22, 39162), (29, 39216), (35, 39309),

Gene: Nyceirae_54 Start: 37807, Stop: 38916, Start Num: 13

Candidate Starts for Nyceirae_54:

(10, 37774), (Start: 13 @37807 has 2 MA's), (14, 37828), (15, 37870), (21, 37951), (25, 37978), (26, 37984), (27, 37990), (28, 37996), (29, 38011), (36, 38143), (37, 38149), (38, 38155), (40, 38284), (41, 38287), (42, 38392),

Gene: Phishy_53 Start: 38633, Stop: 39862, Start Num: 6

Candidate Starts for Phishy_53:

(1, 38372), (2, 38426), (3, 38435), (5, 38588), (Start: 6 @38633 has 3 MA's), (7, 38687), (9, 38708), (10, 38723), (Start: 13 @38756 has 2 MA's), (14, 38777), (15, 38819), (21, 38900), (25, 38927), (26, 38933), (27, 38939), (28, 38945), (29, 38960), (36, 39092), (37, 39098), (38, 39104), (41, 39236), (42, 39341),

Gene: PrairieDogTown_43 Start: 31420, Stop: 32538, Start Num: 12

Candidate Starts for PrairieDogTown_43:

(Start: 12 @31420 has 10 MA's), (34, 31735), (39, 31873), (45, 32440),

Gene: Ryan_64 Start: 39538, Stop: 40560, Start Num: 12

Candidate Starts for Ryan_64:

(Start: 12 @39538 has 10 MA's), (15, 39631), (19, 39703), (20, 39709), (21, 39712), (22, 39715), (29, 39769), (35, 39862),

Gene: ToastyOats_63 Start: 38718, Stop: 39740, Start Num: 12

Candidate Starts for ToastyOats_63:

(Start: 12 @38718 has 10 MA's), (15, 38811), (19, 38883), (20, 38889), (21, 38892), (22, 38895), (29, 38949), (35, 39042),

Gene: Vordorf_50 Start: 37013, Stop: 38146, Start Num: 10

Candidate Starts for Vordorf_50:

(1, 36662), (2, 36716), (3, 36725), (5, 36878), (Start: 6 @36923 has 3 MA's), (7, 36977), (9, 36998), (10, 37013), (Start: 13 @37046 has 2 MA's), (14, 37067), (15, 37109), (16, 37121), (21, 37190), (25, 37217), (26, 37223), (27, 37229), (28, 37235), (29, 37250), (36, 37382), (37, 37388), (38, 37394), (40, 37523), (41, 37526), (42, 37631),

Gene: Yonex_64 Start: 39538, Stop: 40560, Start Num: 12

Candidate Starts for Yonex_64:

(Start: 12 @39538 has 10 MA's), (15, 39631), (19, 39703), (20, 39709), (21, 39712), (22, 39715), (29, 39769), (35, 39862),